



Integra IT Solutions FZE LLC

Sharjah · United Arab Emirates

ERP · WMS · EDMS · CRM · AI

AI-FIRST WAREHOUSE MANAGEMENT SYSTEM · CLOUD-NATIVE · MULTI-TENANT

Integra WMS

RECEIVE · FULFIL · OPTIMISE

A cloud-native warehouse management platform for 3PLs, distributors and brand warehouses across the GCC, India and beyond — inbound to shipping on one data model, with a built-in 3PL billing engine, labor management, a customer self-service portal, RF mobile screens, and an AI layer that watches the floor and acts on it.



End-to-End Operations

PO · ASN · Receiving · QC · Putaway · Waves ·
Picking · Packing · Shipping · Returns · Yard ·
Cross-dock

AI-Integrated

NL warehouse copilot · 6 autonomous agents ·
lights-out wave engine · demand forecasting ·
bring your own model key

Built for 3PLs

Contracts & rate cards · 8 storage charge
methods · automated invoicing · customer portal
· multi-tenant isolation

Integra IT Solutions FZE LLC

Integra IT Solutions — formerly Edocs Solutions & Computer Consultants — has spent two decades building ERP, WMS, EDMS, CRM and BPM platforms for organisations that live and die by the clock. Headquartered in Sharjah, UAE, our systems run inside top-tier courier, logistics and trading enterprises across the GCC, India, Africa and Southeast Asia.

We build purpose-built platforms — not generic software bent out of shape — and we own the operational complexity so our customers don't have to.

Integra WMS is the warehouse backbone of the Integra platform suite. It runs standalone, or connected to Integra Ontrack ERP, Integra Finance, Cargo and third-party systems through its REST API, webhooks and API keys.

Company at a glance

ORIGIN

Sharjah Publishing City Free Zone, UAE

EXPERIENCE

20+ years · 100+ global clients

REACH

Live deployments across GCC, India, Africa & Southeast Asia

PRODUCT LINES

Courier ERP · Cargo & Logistics ·
Integra WMS · Integra Finance ·
Integra AI · EDMS · CRM

DELIVERY

Cloud SaaS or on-premise · UAE data residency · 24/7 support

THE PRODUCT

What is Integra WMS?

A complete warehouse management system — purchase order through delivery confirmation — designed around how distribution and 3PL operations actually run: ASN-driven receiving, lot and serial traceability, wave-based fulfilment with reservation-safe stock, RF scanning on the floor, engineered labor standards, and billing that is generated from the operational data itself rather than re-keyed at month-end.



Operations Core

PO → ASN → receiving → QC → putaway, then orders → waves → picks → packing → shipments. Every stock movement is a transactional, audited adjustment with reservation integrity.



AI That Acts

Natural-language questions over live data, six autonomous agents (slotting, labor, demand, exceptions, dock, cartonization), and a lights-out engine that builds and assigns waves on a schedule.



3PL Business Built In

Billing contracts with 14 rate types and 8 storage charge methods, automated invoices from real activity, revenue projections, and a branded customer portal for orders, invoices and returns.

72

SCREENS ACROSS 30+
MODULES

8

MICROSERVICES · ONE
GATEWAY

14+

REPORTS & A REPORT
BUILDER

6

AUTONOMOUS AI AGENTS

Benefits at a Glance

Inventory You Can Trust

Stock enters the system at putaway, is reserved at wave release and consumed at pick confirmation. Negative-stock protection, cycle counts with approved variances and a full adjustment audit trail.

Traceability End to End

Lot, serial and LPN tracking with one-click backward trace to supplier and PO, and forward trace to location and shipped order. Recalls quarantine affected lots automatically.

AI That Acts, Never Blocks

Agents rebalance labor, draft purchase orders, re-sequence stalled waves and recommend cartons. Ask the copilot a question and get an answer grounded in live queries.

Faster Fulfillment

Smallest-sufficient-bin allocation, pick-path ordered task queues, serpentine resequencing, auto-assignment across workers on shift, and short-pick aware RF confirmation.

Billing From the Data

3PL invoices are generated from actual receipts, orders, shipments and storage volume — per-line minimums, monthly minimum top-ups, tax and due dates — no spreadsheets.

Open by Design

Uniform REST API behind one gateway, scoped API keys, HMAC-signed webhooks, a connector marketplace, and native links to Integra Ontrack ERP and Integra Finance.

Major Features

- ✓ Browser-based — nothing to install on client PCs or scanners
- ✓ Multi-tenant, multi-warehouse, multi-zone with warehouse-scoped roles
- ✓ ASN or blind receiving with lot, expiry, LPN, condition and serial capture
- ✓ Auto-generated putaway tasks; stock posted at putaway completion
- ✓ Wave planning with atomic inventory reservation
- ✓ Pick-path ordered WES queue with auto-assignment and resequencing
- ✓ RF mobile: pick, receive, putaway, count, scan-first screens
- ✓ Cycle, physical and spot counts with approved variance posting
- ✓ FEFO-oriented lot management, hold / release, full lot trace
- ✓ Serial genealogy and whole-LPN moves
- ✓ AI slotting (ABC × velocity) and auto-replenishment
- ✓ Kitting with BOM import; inter-warehouse transfers; cross-docking
- ✓ Dock appointments and door occupancy board
- ✓ Engineered labor standards, productivity index, leaderboards and badges
- ✓ 3PL contracts: 14 rate types, 8 storage charge methods, auto-invoicing
- ✓ Customer portal: orders, tracking, invoice, self-service RMA
- ✓ Control Tower with SLA risk and prioritised exception queue
- ✓ 14 canned reports, report builder with scheduled email delivery
- ✓ NL copilot, 6 autonomous agents, lights-out wave engine
- ✓ Multi-model AI routing — Anthropic, OpenAI, Gemini, Moonshot, custom
- ✓ Pharma recalls & DSCSA; cold chain, FEFO queue & FSMA 204
- ✓ Immutable audit log, JWT with rotating refresh, Redis-backed rate limits
- ✓ REST API, scoped API keys, HMAC webhooks, connector marketplace

Modules



Receiving, Quality & Putaway

From purchase order to stock on the shelf, every inbound document is linked: an ASN arrival creates the receiving order, every scanned line creates its putaway task, and putaway completion is the moment stock formally exists — with a RECEIPT adjustment that references its source.

Inbound Lifecycle



Purchase Orders & ASNs

- ✓ **Multi-line PO wizard** with warehouse, supplier, quantities and cost; duplicate-number protection; approve / send / cancel; linked-ASN visibility
- ✓ **POs auto-drafted by the Demand agent** for items under 14 days of stock
- ✓ **ASN header** carries carrier, tracking, PRO number, trailer and dock door; lines carry item, expected qty, lot, expiry and PO-line link
- ✓ **Arrive** transactionally sets ARRIVED and generates the Receiving Order pre-linked to the ASN

Receiving & Quality Control

- ✓ **ASN-based or blind receiving**; per-scan line capture with lot, expiry, LPN and condition (GOOD / DAMAGED / EXPIRED)
- ✓ **Serial-number capture wizard** for serialized items — batch entry, duplicate-safe
- ✓ **Each received line auto-creates a putaway task**; damaged and expired stock is prioritised
- ✓ **QC inspection queue** with passed / rejected quantities, notes and inspector stamp; pending / inspected tabs and KPI cards
- ✓ Completion cascades status to the ASN; **supplier scorecard** tracks on-time % and line accuracy over the last 100 ASNs

DOCUMENT	STATES
Purchase Order	DRAFT · OPEN · PARTIALLY_RECEIVED · RECEIVED · CLOSED · CANCELLED
ASN	PENDING · IN_TRANSIT · ARRIVED · RECEIVING · RECEIVED · CLOSED
Receiving Order	IN_PROGRESS · PUTAWAY_PENDING · COMPLETED · CLOSED
Putaway Task	PENDING · ASSIGNED · IN_PROGRESS · COMPLETED
Return (RMA)	REQUESTED · APPROVED · IN_TRANSIT · RECEIVED · INSPECTED · RESTOCKED / DISPOSED · CLOSED
Dock Appointment	SCHEDULED · ARRIVED · DOCKED · LOADING · COMPLETED · NO_SHOW

What this means for you

- ✓ No stock appears until it is physically put away — on-hand matches the shelf
- ✓ Damaged goods never reach a pick face
- ✓ Receiving crews work from ASNs, not paper
- ✓ Suppliers are graded from real arrival data

Putaway Posting

Completion upserts the inventory position at the confirmed location, recomputes availability and writes a RECEIPT adjustment referencing the receiving order. Priority-ordered queue with suggested vs actual location.

Returns (RMA)

Condition grading A / B / C / DAMAGED / SCRAP per line. RESTOCKED disposition transactionally returns quantities to inventory; otherwise DISPOSED. Customers can raise RMAs themselves in the portal.

Yard & Dock

Dock appointments by date, slot, door, carrier, trailer and seal, linked to the ASN or order. Per-step timestamps, actual units, no-show tracking and a door occupancy board with a visual dock map.

Lots, Serials, LPNs & Counts

The capabilities regulated and high-value warehouses ask for first — and the ones most mid-market systems bolt on as add-ons. In Integra WMS they are native to the stock position.

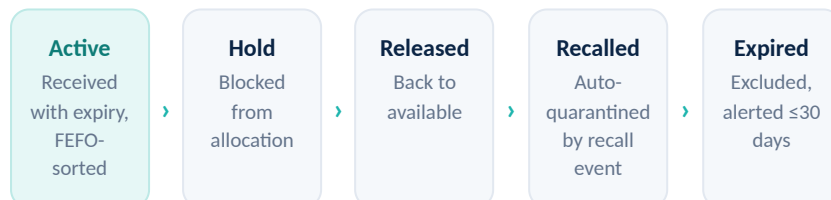
Stock Positions & Adjustments

- ✓ **On-hand by warehouse / location / item / lot / LPN** with quantity, reserved, available and status: AVAILABLE, RESERVED, QUARANTINE, DAMAGED, EXPIRED, ON_HOLD
- ✓ **8 adjustment types** — RECEIPT, ISSUE, CYCLE_COUNT, PHYSICAL_COUNT, DAMAGE, EXPIRY, TRANSFER, CORRECTION — with reason codes and negative-stock protection
- ✓ **Low-stock alert email** fires automatically when available stock reaches the reorder point
- ✓ **Rich item master:** dimensions, weight, UOM, barcode, category, lot / serial / expirable / catch-weight flags, min / max / reorder point, ABC class and velocity, custom fields

Cycle Counting

- ✓ CYCLE, PHYSICAL and SPOT sessions snapshot system quantities for the chosen locations
- ✓ Variance captured per line; completion requires every line counted
- ✓ **Approval posts variances** as CYCLE_COUNT adjustments with a variance summary email; accuracy feeds the Control Tower KPI

Lot Lifecycle

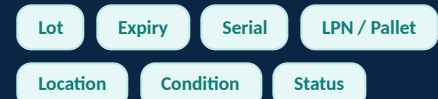


One-click **full lot trace**: backward to ASN lines, supplier and PO; forward through receiving lines, current locations and shipped orders.

What this means for you

- ✓ Answer a recall query in one click, not one afternoon
- ✓ Expiring stock surfaces before it expires
- ✓ Count variances post with an approval, not a spreadsheet
- ✓ Reserved stock cannot be double-allocated
- ✓ Every unit's history: supplier → location → customer

TRACKED IDENTIFIERS



Serial Numbers

Batch capture at receiving, lifecycle IN_STOCK → SHIPPED / RETURNED / DAMAGED / SCRAPPED, per-serial genealogy and scan-based lookup.

LPN / Pallet

License plates with contents lookup (SKUs, quantities, lot, status) and whole-LPN move between locations in a single action.

AI Slotting

ABC × velocity from 90-day pick history: top 20 % → A / FAST into picking zones. Analyse without persisting, then apply to all or selected items.

Replenishment

Auto-generated tasks for items below reorder point, STORAGE → PICKING, prioritised by ABC class, duplicate-suppressed; completion moves stock.

Kitting & Transfers

BOM per kit with CSV import, availability check, transactional kit build. Inter-warehouse transfers: ship deducts source, receive adds destination.

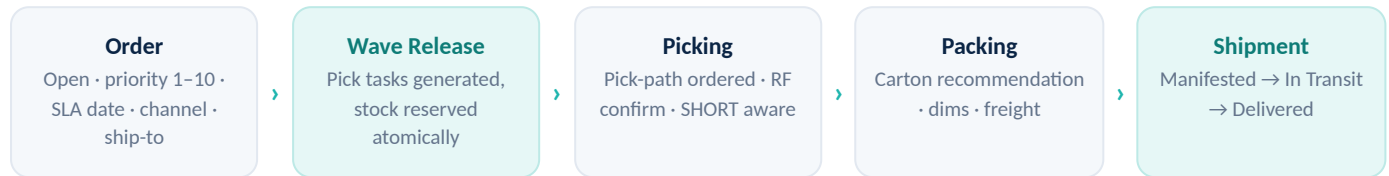
Cross-dock & Digital Twin

Dock-to-dock events linked to ASN and order move stock without putaway. A heat-coloured warehouse map shows stock and pick activity per location.

Orders, Waves, Picking & Shipping

Orders become waves; waves become pick-path ordered tasks; tasks are confirmed on RF with short-pick awareness and automatically advance the order and the wave. A warehouse execution layer watches it all in real time, and an autonomous engine can run the cycle without a planner.

Outbound Lifecycle



Orders & Waves

- ✓ Order lifecycle OPEN → WAVE_ASSIGNED → PICKING → PICKED → PACKING → PACKED → SHIPPED, with reason-tagged HOLD and CANCEL guards
- ✓ Wave types STANDARD, BULK, REPLEN, PARCEL with cutoff times; add eligible orders, totals maintained
- ✓ **Release** allocates each line with a smallest-sufficient-bin heuristic, captures LPN / UOM / priority and reserves inventory in one transaction
- ✓ **Pick confirmation** decrements stock, releases reservations, classifies SHORT with a reason, and auto-advances order and wave
- ✓ Packing station creates the shipment (carrier, service, dims, freight cost, door); ship confirmation stamps departure; carrier status flows to DELIVERED

Warehouse Execution System (WES)

- ✓ **Execution dashboard** (15 s refresh): active waves, tasks by status, last-hour throughput, short tasks, active workers, completion rate
- ✓ **Pick-path ordered queue** — priority, then aisle → bay → level — with item, location, order and SLA context
- ✓ **Auto-assign N best tasks** to a worker in one call; manual assign; release back to the pool with lifecycle guards
- ✓ **Wave execution view** with per-worker and per-zone progress; **serpentine resequencing** of released waves
- ✓ Worker panel: role, zone, shift status, current tasks, completed today

🌙 Autonomous Operations — the lights-out engine

One cycle, manual or on a cron: gather unwaved OPEN orders by priority and SLA → create an auto-named released wave (AUTO-000N) → generate pick tasks against the highest-stock positions → **assign tasks load-balanced across every worker with an active shift**, sequenced by priority then aisle → move the wave to PICKING. Returns a full action audit trail.

Order threshold

Max orders / wave

Tasks / worker

Cron interval

Alert feed

SLA-breach watchdog email

Labor Management (LMS)

- ✓ **Engineered standards** per task type (pick, putaway, pack, receive, count, replen, load, unload, transfer) × equipment (walk, forklift, reach truck, order picker, RF, voice)
- ✓ **Picks / hour and Performance Index** per worker; site summary with average PI
- ✓ **Shifts** by warehouse, zone and role; absence and overtime reports
- ✓ **Gamification**: 8 badges and day / week / month leaderboards

Invoices Generated From the Floor

Most 3PLs bill from a spreadsheet filled in at month-end. Integra WMS bills from the receiving lines, orders, shipments and storage positions the warehouse already recorded — per contract, per rate card, per period — and gives each customer a portal to see it.

Contracts & Rate Cards

- ✓ Per-customer contracts: currency, effective / expiry dates, MONTHLY or WEEKLY cycle, minimum monthly charge, tax, payment terms, invoice-header addresses
- ✓ **14 rate types:** storage, handling in / out, receiving, shipping, returns, accessorial, minimum, long-term storage, putaway fee, CAM, insurance, peak surcharge, value-added service
- ✓ Contract deletion protected once invoiced

The 8 Storage Charge Methods

METHOD	COMPUTATION
DAILY	Average stock × days in period
WEEKLY	ceil(average stock) × weeks in period
MONTHLY_AVG	(opening + closing) / 2 — default
MONTHLY_PEAK	max(opening, closing)
FIXED	Flat fee per period
CBM	Units × volumetric factor
WEIGHT_BASED	Units × weight factor
SLAB	Tiered rates by quantity band, blended effective rate

Customer volume is derived from actual ASN inflow and order outflow — opening, closing, average and peak stock per period.

Customer Self-Service Portal

A separate branded shell for a 3PL's customers. CUSTOMER-role users are routed here automatically on the same SSO; operators cannot enter and customers cannot reach the WMS. Ownership is enforced on every record.



Dashboard

Total / open / picking / shipped / delivered orders, amount due, recent orders.



Orders & Tracking

Status-filtered history with lines, ship-to and shipment tracking; per-order detail.



Invoices

Outstanding, overdue and paid summary; invoice list with period, subtotal and total.



Self-Service Returns

Return history plus RMA creation with SKU-resolved lines, reason codes and auto numbering.

Invoice generation

- ✓ Quantity per rate type from real operational counts
- ✓ Per-line minimum-charge floors
- ✓ Contract monthly-minimum top-up line
- ✓ Tax, auto numbering, due date from payment terms
- ✓ DRAFT → SENT → PAID / OVERDUE / CANCELLED
- ✓ Professional invoice PDF

Revenue Analytics

Monthly paid vs outstanding, by-customer and by-rate-type breakdowns, invoice aging 0-30 / 31-60 / 61-90 / 91+, billing summary KPIs and **projections up to 6 months** from contract history.

Pharma, Food & Beverage — Built In

Regulated inventory is where most WMS products hand you a consultant. Integra WMS ships recall management, chain-of-custody, cold-chain monitoring and traceability reports as product features on the same lot and serial data the warehouse already captures.

Pharma / DSCSA

- ✓ **Recall management:** auto-numbered events (RC-YYYY-####), severity CRITICAL → LOW, lifecycle OPEN → INVESTIGATING → QUARANTINED → RESOLVED → CLOSED
- ✓ **Automatic lot quarantine** on recall initiation; affected-unit tracking and resolution notes
- ✓ **DSCSA chain-of-custody report** per item: serials with ship info, lots with supplier and country of origin, recall history — timestamped

Food & Beverage

- ✓ **Cold-chain monitoring:** zone temperature logs (°C / °F) with min / max thresholds, automatic alert flags and breach emails, 24 h zone summaries
- ✓ **FEFO priority queue:** lots expiring within 30 days with stock, sorted by expiry and per-location quantity
- ✓ **FSMA 204 traceability report:** Key Data Elements per active lot — origin, product, quantities, locations, dates — with CSV export

RF / Mobile Interface

A mobile-sized dark shell at /rf with large touch targets, auto-focused scan inputs and success confirmations — runs in the browser on any Android scanner, tablet or phone. No device agent to install.

SCREEN	FLOW
RF Home	Operator landing: shift summary, pending pick and putaway counts
RF Pick	Task cards (location, qty) → confirm quantity → "Pick Complete!" — short-pick aware
RF Receive	Select arrived ASN → scan SKU / barcode → lot + qty → received
RF Putaway	Task card → suggested location → scan location label → complete
RF Count	Assigned counts → scan location → physical qty per line → complete

Operational controls

- ✓ Lot expiry alerts at 30 days, high severity at 7
- ✓ Stale putaway alert after 4 hours
- ✓ Pick backlog alert above 20 pending
- ✓ SLA-breach alert for orders due within 4 hours
- ✓ Low-stock email at reorder point
- ✓ Cycle-count variance email on approval
- ✓ Temperature breach email per zone
- ✓ Hourly SLA watchdog email to supervisors

Compliance frameworks we are built for

DSCSA

US Drug Supply Chain Security Act — serialised chain-of-custody and recall evidence per item.

FSMA 204

US Food Traceability Rule — Key Data Elements per lot, exportable for the 24-hour request window.

FEFO / Expiry

First-expired-first-out lot management, hold and release, expiry exclusion from allocation.

GRI • SASB • CDP

ESG carbon dashboard with per-order CO₂ and a composite A-D score referencing these frameworks.

Control Tower, Reports & Forecasting

A live operations snapshot for the supervisor, a reports library for the manager, a report builder with scheduled delivery for everyone else — and a statistical demand model that turns pick history into purchase orders.

GROUP	REPORTS
Inventory	Inventory On-Hand · Inventory Aging · ABC Analysis · Lot Expiry · Cycle Count Variance
Fulfilment	Order Fill Rate · Pick Accuracy · Intraday Throughput · Cost per Order (freight, per carrier)
Labor & Yard	Labor Productivity (picking + receiving) · Dock Utilization · Absence · Overtime
Inbound	Supplier Scorecard · Receiving Summary · QC exceptions
3PL Billing	3PL Revenue · Invoice Aging 0–30 / 31–60 / 61–90 / 91+ · Projections
Report Builder	inventory_snapshot · order_performance · pick_productivity · receiving_summary · shipping_summary · lot_expiry — fields, filters, aggregations; saved public or private; daily / weekly email schedule
Export	Every table exports to CSV · audit log CSV · FSMA 204 CSV

Report Builder

Six configurable report types with field, filter and aggregation metadata. Save, run, edit and share definitions; run tracking; CSV export; **branded HTML email delivery** on an hourly scheduler.

Demand Forecasting

Per-item demand from completed picks, trend %, days-of-stock, reorder flags, suggested PO quantity and urgency tiers (CRITICAL <7 d, HIGH <14 d, MEDIUM <30 d). **One-click PO creation** from the forecast.

Distributed Order Management

Every open order scored against every active warehouse — stock availability (40), capacity (20), workload (20), carrier cost (20) — with readable reasons and one-click re-route when a better site wins by >10 points.

Cartonization

Box-size recommendation from weight and item count across five carton sizes, with distribution charts; the Cartonization agent moves picked orders to packing with the recommended box.

Sustainability / ESG

Carbon dashboard from published intensity factors: transport (road / air), forklift hours, packaging, electricity. CO₂ per order, trend, carrier distribution and a composite ESG score 0–100 rated A–D.

CONTROL TOWER

Picks today and last hour, shipments, receiving lines, open picks, pending putaway, open orders, active waves. SLA at-risk (<4 h) and breached counts with compliance rate; inventory accuracy from 30-day counts; QC exception count; order pipeline by status.

EXCEPTION QUEUE

Prioritised: SLA breach, stale putaway, pick backlog, lot expiry, damaged receiving — each with severity, detail and a suggested action.

DASHBOARDS

Main dashboard with live KPIs and toasts; WES execution board; AI agent dashboard; carbon / ESG dashboard; billing revenue analytics; digital twin map.

CHARTS

Line, bar, area, donut and distribution charts rendered natively in the browser — no plug-ins.

An AI Layer That Works the Floor With You

Integra WMS embeds large-language-model intelligence directly into warehouse operations — grounded in your own live data, scoped by your roles, and architected so that AI never blocks a scan. You choose the provider and bring your own key; your operational data never trains anyone's model.



Warehouse Copilot

Ask in plain language — "which lots expire this month?", "who is behind on picks?" An LLM classifies the question, real database aggregates are fetched, and the answer is grounded in that data with six turns of context.



Six Autonomous Agents

Slotting, Labor, Demand, Exceptions, Dock and Cartonization — each with its own KPIs, alert status and one-click action trigger on a live agent dashboard.



Lights-Out Waves

The autonomous engine builds waves from open orders, generates pick tasks, reserves stock and load-balances work across workers on shift — on a schedule you set.



Forecast & Route

Demand forecasting with urgency tiers and auto-drafted POs; distributed order management that scores every warehouse for every order.

AGENT	WHAT IT DOES
Slotting	ABC-velocity re-classification from 90-day pick history; one-click apply to the item master
Labor	Rebalances open pick tasks from overloaded (>1.3× average) to underloaded (<0.7×) active workers
Demand	Auto-drafts purchase orders for items under 14 days of stock on a 30-day velocity model
Exceptions	Re-sequences waves stalled over 2 hours; escalates overdue orders to top priority
Dock	Monitors pending putaway and shipment flow at the doors
Cartonization	Moves picked orders to PACKING with a recommended carton from five sizes

Bring Your Own Key • Provider Choice

Anthropic Claude, OpenAI, Google Gemini, Moonshot, or any OpenAI-compatible endpoint (Groq, DeepSeek, private models). Per-tenant model fleet with **primary → fallback routing**, automatic failover flagged in responses, per-use-case priorities (copilot / agents / forecast), a one-token connection tester with latency, and token accounting per tenant and user.

Anthropic

OpenAI

Gemini

Moonshot

Custom endpoint

Keys masked at rest

Role-gated

Built for where warehousing is going

Agentic operations, carrier and marketplace connectivity, real-time visibility — Integra WMS is upgraded on a published roadmap so customers get these as releases, not re-implementations.



Allocation & Pick Strategies

FEFO / lot-safe allocation engine, batch, cluster and zone picking, putaway suggestion algorithm and real pick-path optimisation.



Carrier, Labels & EDI

Carrier integration with label printing, camera barcode scanning with GS1 parsing in RF, EDI via managed translator for enterprise 3PL accounts.



Commerce & ERP Connectors

Shopify and NetSuite connectors, OpenAPI developer portal with sandbox tenants, fired webhooks on an event backbone.



Approval-Gated Agent Autonomy

The six agents gain approval-gated autonomy, forecasting with backtests and a labor-planning loop, copilot-everywhere with tool use.



Offline RF & Voice

Installable offline PWA for RF devices and voice-directed picking.



SSO, MFA & Row-Level Security

Enterprise sign-on, multi-factor authentication and Postgres row-level security for defence-in-depth tenant isolation.

Roadmap items are planned enhancements and are released progressively; timing is shared with customers under agreement.

Enterprise-Grade Foundation

Multi-Tenant Platform

Row-level tenant isolation on every table with tenant-scoped uniqueness. Multi-warehouse with zones and typed locations. Per-tenant settings for SMTP, AI models, webhooks and API keys. Plans: Essentials, Professional, Enterprise.

Security

bcrypt password hashing, short-lived access JWTs with rotating refresh tokens blacklisted in Redis on rotation and logout, anti-enumeration password reset, helmet headers, CORS lock, Redis-persisted rate limits, gateway-signed internal service auth.

Roles & Permissions

Permissions in module : action : resource form, roles assignable per user and **scoped to a warehouse** — supervisor in one site, picker in another. SUPER_ADMIN, operator and CUSTOMER roles route to the right shell.

Audit Trail

Tenant-scoped audit log with old / new value diffs, user, IP and user-agent; filterable by user, action, resource and date; CSV export. Every stock change leaves an adjustment record.

Integration & API

Uniform /api/* REST namespace behind one gateway with consistent pagination and errors. Scoped API keys hashed at rest, HMAC-signed webhooks with event subscriptions, connector marketplace with a guided install wizard.

Operations

Health endpoint on every service, structured logging, Docker Compose deployment, hourly schedulers for SLA watchdog and scheduled reports, per-tenant email, timestamped database backups and a documented restore procedure.

Multi-tenant

Multi-warehouse

PostgreSQL 16 • Redis 7

Node.js microservices • React SPA

REST API + Webhooks

Browser-based RF

Cloud SaaS or on-premise

UAE data residency

Connects to Integra Ontrack ERP • Integra Finance • Cargo



Ready to see your warehouse **run** itself?

Book a live demonstration with your own item master, a sample of open orders and an inbound ASN. We will show you receiving to shipping on RF, the lights-out wave engine, 3PL invoicing from real activity and the AI copilot — on your data.

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